

Safety Recommendation A-67-8

The National Transportation Safety Board (NTSB) issued Safety Recommendation A-67-8 to the Federal Aviation Administration on February 20, 1967, as a result of the NTSB's investigation of not only the February 11, 1967 propeller blade failure on Beech 18, N7388, at Love Field in Dallas, Texas, but also its investigation of seven prior recorded failures of Hartzell HCB 3Z302E propeller blades. In our opinion, these incidents indicate the ineffectiveness of Airworthiness Directive 65-7-2 toward precluding failures of subject blade. Records show that these eight failures occurred at average engine T.S.O. of 594 hours and average propeller T.S.O. of 635 hours. The text of Safety Recommendation A-67-8 is as follows:

To the Federal Aviation Administration: The Board recommends regulatory action to provide for immediate inspection, preferably prior to further flight, of subject and similar model propellers to detect impending failures in the area of blade retention clamps. It is further recommended that such inspections be repeated at intervals adequate to ensure continued airworthiness of the propellers.

Further information regarding this accident can be found below.

NTSB Identification: FTW67A0082

14 CFR Part 91 General Aviation

Aircraft: BEECH D18S, registration: N7388

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FILE      DATE      LOCATION      AIRCRAFT DATA      INJURIES      F
LIGHT
PILOT DATA
F S M/N P
URPOSE
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2-0120  67/2/10    DALLAS,TEX      BEECH D18S      CR-
1  0  0  NONCOMMERCIAL      COMMERCIAL, AGE 57, 13000
TIME - 1607      N7388      PX-
2  0  0  CORP/EXEC      TOTAL HOURS, 6000 IN
DAMAGE-DESTROYED OT-
0  0  0      TYPE, INSTRUMENT RATED.
NAME OF AIRPORT - LOVE FIELD
TYPE OF ACCIDENT      PHASE OF OPE
RATION
PROPELLER/ROTOR FAILURE: PROPELLER      TAKEOFF:
INITIAL CLIMB
ENGINE TEARAWAY      TAKEOFF:
INITIAL CLIMB
PROBABLE CAUSE(S)
POWERPLANT - PROPELLER AND ACCESSORIES: BLADES
MISCELLANEOUS ACTS,CONDITIONS - FATIGUE FRACTURE
FACTOR(S)
MISCELLANEOUS ACTS,CONDITIONS - SEPARATION IN FLIGHT
FIRE AFTER IMPACT
REMARKS-
R.ENG HARTZELL PROP BLADE SEPARTED AT SHANK RADIUS.CRANKSHAFT COUNTERWGT LIN
ERS EXCESSIVELY WORN.
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